

## Aerospace Experimental Psychology



Naval Aerospace Experimental Psychologists (AEPs) promote and ensure the safe and effective performance of Navy aviation personnel. They provide the Navy with professional and technical guidance and assistance in the planning and conducting of research, development of new systems, and testing evaluation. AEP contributions can be defined by four types of activities:

### Human Factors Engineering

Through management, research, development, testing, and evaluation, AEPs provide the activities required to improve naval air weapon systems' effectiveness through better interaction of personnel and other system components.

### Personnel and Training

Through management, research, development and evaluation, AEPs provide skilled, properly trained people for the operational aviation environment. They define, design, acquire and evaluate integrated training systems including selection, curriculum development, training devices and simulators, training management and personnel selection.

### Operational Support

AEPs provide acquisition management, education, consultation, study and analysis to contribute direct support to the operating forces and also serve as a vital link to the research community.

### Human Performance

AEPs provide acquisition management, conduct research and develop initiatives to determine the capabilities and limitations of Navy and Marine Corps personnel to operate and maintain the complex airborne weapon systems. Their findings form an essential basis for the development of performance-based design criteria and guidelines



### Why be an AEP?

For the person intrigued with aviation, wanting a bit of adventure, Aerospace Experimental Psychology presents numerous opportunities for new and unique experiences, travel, teamwork and individual development.

More importantly, being a Naval Officer with "Wings of Gold" is a goal achieved by few! As an Aerospace Experimental Psychologist, you will gain an understanding of sea and air power and the problems of Sailors and Marines that cannot be appreciated from any other perspective. With one tour, you will learn to use these skills and join that self-selective, achievement-oriented, competitive population of Naval Aviators.

### For More Information

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# NAVAL AEROSPACE EXPERIMENTAL PSYCHOLOGY





## Professional Qualifications

To become an Aerospace Experimental Psychologist requires a PhD in psychology with primary emphasis in the areas of industrial, experimental, engineering, personnel, training, cognition, operations research, or physiological psychology.

Demonstrated competence in computer information management systems, higher order computer languages, research design, and advanced statistics is highly desired.

The present authorization provides for consideration of applicants who have completed a Masters degree in one of the major areas of emphasis and four (4) years prior commissioned service. This provision emphasizes the importance of military experience to conduct and transition technology. Outservice training for the PhD is utilized to enhance their professional qualifications.

***All applicants must be U.S. citizens.***

## Requirements

Entrance into the Naval Aerospace Experimental Psychology community is highly competitive. Applicants must be in good physical conditioning, especially in order to accomplish land and water survival requirements. Swimming ability should exceed basic staying afloat skills. For those individuals whose swimming skills are weak, additional training should be considered. Waivers for lack of water survival skills are not approved.

- Applicants must be in good health with a benign medical history
- Eyesight correctable to 20/20 in both eyes
- Color vision/depth perception normal
- All other systems must be normal and not compromised by the flight environment
- Must be comfortable in the flight envelope where first-hand appreciation of the stresses of flight will be required

***Applicants must be willing to learn to fly!***

## Training

The Aerospace Experimental Psychologist course entails six months of training in Pensacola, FL. Student AEPs work alongside student naval aviators and aeromedical officers as they complete classroom instruction in aerospace medicine, aviation safety, aerodynamics, meteorology, aircraft engines and systems, navigation, and flight rules and regulations, as well as applied training in aviation physiology and both water and land survival.

AEP training also includes ground school flight instruction, simulated flight events, and actual flight training, all of which expose student AEPs to the hazards and stressors of flight from the perspective of the aircrew.

Finally, a series of AEP-specific training modules are provided to familiarize students with the work that AEPs perform, including a capstone project designed to prepare newly winged AEPs for their first duty assignment.